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Reserve

METHOD DEMONSTRATION ANALYSIS for A Home Industries Project

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Demonstration	Operations:
MAKING AN EVAPORATOR COOLER (Formerly called "Iceless Refrigerator" GREATEST EFFICIENCY OBTAINED WHEN USED UNDER DRY ATMOSPHERIC CONDITIONS.	A. Making the wooden frame B. Applying the wood finish C. Covering with screen wire ') D. Making the water pans E. Making the cloth cover F. Attaching the cover G. Placing the drip pan H. Adding water to the upper water pan
Operations Important steps	Key points
A l. Cut all pieces according dimensions given in work drawings.	cto Choose well-seasoned, decay-resist- ing ant, and mildly odored wood. (Suitable woods of the Pacific area are teak, ash, maple, birch, sal, molave, dungon.)
Making 2. Make all mortises, groov	Keep work well squared up and all pieces for opposite ends es, etc. matched.
the 3. Construct the end pieces	Make well-fitted joints
	Be sure that the shelf braces match on each end.
Frame 5. Attach the two top and the two bottom stretchers. 238(2-45)	Lay one end down on a flat surface, attach stretchers, then attach other end before standing the frame.

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A 6. (Continued)	Fasten the tray shelf in place.	
7.	Make the doorframe.	Make stront joints at corners brace if necessary.
	Make the shelves or shelf frames	Must be open to give good circulation. (Use slats or galvanized hardware cloth)
	Attach hinges to door and frame- also the fasterner that holds the door closed.	Make sure that the doorframe is well fitted use non rusting hinges
B. Applying the	Apply a waterproof finish such as: 1. Two coats of flat paint and/or one coat of enamel. 2. Hot linseed oil or 3. Hot paraffin wax.	Apply wood finish before screen wire is attached.
Wood Finish (If needed or desirable)	For hot paraffin wax treatment: a. Warm the wood b. Apply boiling hot	Before an open fire or near a stove Use cotton cloth mop.

- paraffin
- c. Rub with warm cloth
- d. Apply second coat of wax
- e. Rub thoroughly

1. Attach window-screen wire to Rustproof wire is preferable. C. the back, the ends, and the Covering doorframe, applying thin moulding at edges.

Any other wire should be painted.

with

2. Unless the shelves are made of slats use 1/4 inch hardware Screen Wire cloth to cover shelf frames. tack securely.

Stretch wire very tightly and

D. safpros carl of bus side over t

Making the 1. Make the upper pan to fit inside If it cannot be obtained, then the frame and to rest on the top use metal paint on the pans Upper Water shelf.

house from the remain streets.

the grant of the net denoted . The electrical Use rustproof metal if possible.

Pan and Bottom Drip Pan

2. Make the bottom pan about 2 inches longer and 2 inches wider than the outside dimensions of the frame.

Operations	Important steps	Key points
E Making the Cloth Cover	 Make a cover of cloth to fit the frame. It should be long enough to extend into the bottom drip pan. Canton flannel, burlap, or duck is suitable material. Hem all the edges. Make eyelets in the material, or fasten loops on the edges which are to be fastened to the frame. 	If canton flannel is used turn the smooth side out. Absorbent material carries the water by capillary attraction best.
	3. Make double wick strips which will reach across the top pan length-wise and extend out over the cover on each end of the cooler.	to carry the water out of
	4. Then make similar piece to extend across the pan in the other direction and to the corner.	
F Attaching	1. Attach the cover around the frame and down the side on which the door is not hinged, also down the hinge side of the frame.	Snaps or other fasteners which permit the cover to be easily removed are best.
Cover	2. Then fasten on the latch side of the door.	Let about an inch extend over the open edge of the door.
	3. On the front side of the frame fasten the cloth to the top of the door instead of the frame.	This facilitates the open- ing of the door.
	4. Lay the wicks in the upper pan, letting them extend over the edge far enough to touch the cover.	Dampen the cover to speed the capillary movement of the water.
G Drip Pan	1. Stand the frame in the drip pan.	The cloth cover falls inside the drip pan.
H Adding the Water to the Upper Pan	1. Fill the upper pan within 1 inch of the top.	If the wicks are inclined to float out of place, weigh them down. Keep the upper pan filled with water.

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